

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: November 13, 1995

Date Received: November 8, 1995

Project: Metro Self Monitor, PO #M51276

Date Samples Extracted: November 9, 1995

Date Extracts Analyzed: November 9, 1995

**RESULTS FROM THE ANALYSIS OF THE PROCESS WATER SAMPLE
FOR TOTAL CHROMIUM, COPPER, NICKEL AND ZINC**

Samples Processed Using Method 3005

Results Reported as mg/L (ppm)

<u>Sample ID</u>	<u>Chromium</u>	<u>Copper</u>	<u>Nickel</u>	<u>Zinc</u>
M51276	1.1	0.61	1.0	0.05
Method Blank	<0.05	<0.05	<0.05	<0.05

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Project: Metro Self Monitor, PO #M51276

**QUALITY ASSURANCE RESULTS
FOR TOTAL CHROMIUM, COPPER, NICKEL AND ZINC
Samples Processed Using Method 3005**

Laboratory Code: KJ63449DU

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Sample Result</u>	<u>Duplicate Result</u>	<u>Relative Percent Difference</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	1.1	1.3	17	0-20
Copper	mg/L (ppm)	0.61	0.62	2	0-20
Nickel	mg/L (ppm)	1.0	1.1	10	0-20
Zinc	mg/L (ppm)	0.05	0.05	0	0-20

Laboratory Code: KJ63449MS/KJ63449MD

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>Sample Result</u>	<u>% Recovery</u>		<u>Acceptance Criteria</u>	<u>Relative Percent Difference</u>
				<u>MS</u>	<u>MSD</u>		
Chromium	mg/L (ppm)	5	1.1	94	96	80-120	2
Copper	mg/L (ppm)	5	0.61	96	95	80-120	1
Nickel	mg/L (ppm)	10	1.0	95	95	80-120	0
Zinc	mg/L (ppm)	5	0.05	98	98	80-120	0

Laboratory Code: Spike Blank

<u>Analyte:</u>	<u>Reporting Units</u>	<u>Spike Level</u>	<u>% Recovery MS</u>	<u>Acceptance Criteria</u>
Chromium	mg/L (ppm)	5	102	80-120
Copper	mg/L (ppm)	5	101	80-120
Nickel	mg/L (ppm)	10	102	80-120
Zinc	mg/L (ppm)	5	102	80-120

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Andrew John Friedman
James E. Bruya, Ph.D.
(206) 285-8282

3012 16th Avenue West
Seattle, WA 98119-2029
FAX: (206) 283-5044

November 13, 1995

Gerry Thompson, Project Leader
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

Dear Mr. Thompson:

Enclosed are the results from the testing of material submitted on November 8, 1995 from your Metro Self Monitor, PO #M51276 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Kurt Johnson
Chemist

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Enclosures
FAX: 382-7335
ACU1113R.DOC

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November 13, 1995

**INVOICE # 95ACU1113-1
DUPLICATE COPY**

Accounts Payable
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134

RE: Project Metro Self Monitor, PO #M51276: Results of testing requested by
Gerry Thompson, Project Leader for material submitted on November 8,
1995.

1 process water sample analyzed for Total Chromium, Copper, Nickel, Zinc @ \$65 per sample	<u>\$ 65.00</u>
Amount Due	\$ 65.00